

**Form PTO-1449** (modified)Atty. Docket No.  
SILA:127C1Serial No.  
UNKNOWN

List of Patents and Publications for Applicant's

Applicants  
JAMES MALIGEORGOS ET AL.**INFORMATION DISCLOSURE STATEMENT**

(Use several sheets if necessary)

Filing Date:  
HEREWITHGroup:  
UNKNOWNU.S. Patent Documents  
See Pages 1-7Foreign Patent Documents  
See Pages 7-8Other Art  
See Pages 7-15**U.S. Patent Documents**

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date if App.
<i>B</i>	A1	5,828,955	10/27/98	Lipowski et al.	—	—	8/30/95
<i>B</i>	A2	6,035,186	3/7/00	Moore et al.	—	—	3/11/97
<i>B</i>	A3	6,075,979	6/13/00	Holtvoeth et al.	—	—	3/5/97
	A4	5,764,171	6/9/98	Stikvoort	—	—	4/2/96
	A5	6,148,048	11/14/00	Kerth et al.	—	—	9/26/97
	A6	4,713,563	12/15/87	Marshall et al.	—	—	5/12/86
	A7	4,070,632	1/24/78	Tuttle	—	—	9/22/76
	A8	4,236,252	11/25/80	Kominami et al.	—	—	2/6/79
	A9	4,680,588	7/14/87	Cantwell	—	—	12/5/85
	A10	4,857,928	8/15/89	Gailus et al.	—	—	1/28/88
	A11	4,989,074	1/29/91	Matsumoto	—	—	9/21/89
	A12	5,050,192	9/17/91	Nawata	—	—	11/21/90
	A13	5,083,304	1/21/92	Cahill	—	—	9/28/90
	A14	5,142,695	8/25/92	Roberts et al.	—	—	3/21/91
	A15	5,194,826	3/16/93	Huusko	—	—	4/12/91
	A16	5,235,410	8/10/93	Hurley	—	—	7/10/91
	A17	5,267,272	11/30/93	Cai et al.	—	—	2/14/91
	A18	5,283,578	2/1/94	Ribner et al.	—	—	11/16/92
	A19	5,345,406	9/6/94	Williams	—	—	8/25/92
	A20	5,430,890	7/4/95	Vogt et al.	—	—	11/20/92
	A21	5,442,353	8/15/95	Jackson	—	—	10/25/93
	A22	5,451,948	9/19/95	Jekel	—	—	2/28/94
	A23	5,500,645	3/19/96	Ribner et al.	—	—	3/14/94

Examiner: *Jaluk Bely*Date Considered: *3/16/06*

EXAMINER: initial if reference considered, whether or not citation is in conformance with MPEP609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<b>Form PTO-1449</b> (modified)  List of Patents and Publications for Applicant's  <b>INFORMATION DISCLOSURE STATEMENT</b>  (Use several sheets if necessary)		Atty. Docket No. SILA:127C1	Serial No. UNKNOWN
Applicants JAMES MALIGEORGOS ET AL.		Filing Date: HEREWITH	
Group: UNKNOWN			
U.S. Patent Documents See Pages 1-7	Foreign Patent Documents See Pages 7-8	Other Art See Pages 7-15	

**U.S. Patent Documents**

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date if App.
<del>✓</del>	A24	5,557,642	9/17/96	Williams	—	—	11/14/94
<del>✓</del>	A25	5,712,628	1/27/98	Phillips et al.	—	—	8/31/95
	A26	5,742,189	4/21/98	Yoshida et al.	—	—	9/14/95
	A27	5,862,465	1/19/99	Ou	—	—	12/30/96
	A28	5,973,601	10/26/99	Campana	—	—	12/2/97
	A29	5,758,276	5/26/98	Shirakawa et al.	—	—	5/31/96
	A30	5,740,524	4/14/98	Pace et al.	—	—	12/14/95
	A31	4,623,926	11/18/86	Sakamoto	—	—	11/9/836
	A32	5,341,135	8/23/94	Pearce	—	—	4/30/92
	A33	5,241,310	8/31/93	Tiemann	—	—	3/2/92
	A34	4,562,591	12/31/85	Stikvoort	—	—	2/2/84
	A35	5,243,345	2/21/92	Naus et al.	—	—	2/21/92
	A36	5,469,475	11/21/95	Voorman	—	—	5/31/91
	A37	4,912,729	3/27/90	Van Rens et al.	—	—	12/15/88
	A38	4,627,021	12/2/86	Persoon et al.	—	—	3/13/84
	A39	4,692,737	9/8/87	Stikvoort et al.	—	—	10/17/86
	A40	4,584,659	4/22/86	Stikvoort	—	—	7/5/83
	A41	4,797,845	1/10/89	Stikvoort	—	—	12/11/86
	A42	4,604,720	8/5/86	Stikvoort	—	—	3/16/84
	A43	5,157,343	10/20/92	Voorman	—	—	5/31/91
	A44	5,124,705	7/23/92	Voorman	—	—	7/10/91
	A45	4,468,790	8/28/84	Hofelt	—	—	2/16/82
<del>✓</del>	A46	5,859,878	1/12/99	Phillips et al.	—	—	8/31/95

Examiner:

*John P. G.*

Date Considered:

*3/16/06*

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<del>✓</del>	A47	6,323,735	11/27/01	Welland et al.	—	—	5/25/00
<del>✓</del>	A48	6,167,245	12/26/00	Welland	—	—	5/29/98
<del>✓</del>	A49	6,388,536	5/14/02	Welland	—	—	6/27/00
<del>✓</del>	A50	6,147,567	11/14/02	Welland et al.	—	—	5/29/98
<del>✓</del>	A51	6,327,463	12/4/01	Welland	—	—	5/29/98
✓	A52	6,233,441	5/15/01	Welland	—	—	5/19/98
✓	A53	6,304,146	10/16/01	Welland	—	—	5/29/98
✓	A54	6,308,055	10/23/01	Welland et al.	—	—	5/29/98
✓	A55	6,150,891	11/21/00	Welland et al.	—	—	5/29/98
✓	A56	6,317,006	11/13/01	Welland et al.	—	—	7/21/00
✓	A57	6,137,372	10/24/00	Welland	—	—	5/29/98
✓	A58	6,226,506	5/1/01	Welland et al.	—	—	5/29/98
✓	A59	6,311,050	10/30/01	Welland et al.	—	—	5/29/98
✓	A60	4,179,670	12/18/79	Kingsbury	—	—	1/27/78
✓	A61	4,204,174	5/20/80	King	—	—	11/9/78
✓	A62	4,686,488	8/11/87	Attenborough	—	—	1/31/86
✓	A63	4,758,802	7/19/88	Jackson	—	—	2/21/86
✓	A64	5,055,802	10/8/91	Hietala et al.	—	—	4/30/90
✓	A65	5,079,521	1/7/92	Gaskell et al.	—	—	11/21/90
✓	A66	5,224,132	6/29/93	Goldberg	—	—	1/17/92
✓	A67	5,379,003	1/3/95	Bizen	—	—	12/9/93
✓	A68	5,446,767	8/29/95	Nakagawa et al.	—	—	4/20/93
✓	A69	5,517,534	5/14/96	Knierim	—	—	11/14/94

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<del>B</del>	A70	5,534,825	7/9/96	Goma et al.	—	—	4/28/95
<del>B</del>	A71	5,539,359	7/23/96	Goma	—	—	3/29/95
<del>B</del>	A72	5,576,667	11/19/96	Goma	—	—	11/21/95
<del>B</del>	A73	5,581,584	12/3/96	Inoue et al.	—	—	7/20/94
<del>B</del>	A74	3,571,743	3/23/71	Menkes	—	—	10/30/68
<del>B</del>	A75	3,899,746	8/12/75	Gammel	—	—	9/14/73
<del>B</del>	A76	4,009,448	2/22/77	Hopwood et al.	—	—	1/6/76
<del>B</del>	A77	4,099,137	7/4/78	Alm, Jr. et al.	—	—	7/10/77
<del>B</del>	A78	4,805,198	2/14/89	Stern et al.	—	—	5/19/87
<del>B</del>	A79	4,888,564	12/19/89	Ishigaki	—	—	11/2/88
<del>B</del>	A80	5,315,269	5/24/94	Fujii	—	—	7/31/92
<del>B</del>	A81	5,495,205	2/27/96	Parker et al.	—	—	1/6/95
<del>B</del>	A82	5,625,325	4/29/97	Rotzoll et al.	—	—	12/22/95
<del>B</del>	A83	5,648,744	7/15/97	Prakash et al.	—	—	12/22/95
<del>B</del>	A84	5,686,864	11/11/97	Martin et al.	—	—	9/5/95
<del>B</del>	A85	5,739,730	4/14/98	Rotzoll	—	—	12/22/95
<del>B</del>	A86	5,852,384	12/22/98	Sakakura et al.	—	—	4/18/97
<del>B</del>	A87	5,856,763	1/5/99	Reeser et al.	—	—	3/5/97
<del>B</del>	A88	5,936,474	8/10/99	Rousselin	—	—	3/28/97
<del>B</del>	A89	5,157,358	10/20/92	Benson	—	—	11/20/91
<del>B</del>	A90	4,205,272	5/27/80	Kumagai	—	—	4/13/78
<del>B</del>	A91	4,980,653	12/25/90	Shepherd	—	—	9/5/89
<del>B</del>	A92	5,909,150	6/1/99	Kostelnik et al.	—	—	10/23/97

Examiner:

*John P. G. 7*

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<del>B</del>	A93	4,713,631	12/15/87	Enderby et al.	—	—	1/6/86
<del>B</del>	A94	3,538,450	11/3/70	Andrea et al.	—	—	11/4/68
<del>B</del>	A95	4,484,153	11/20/84	Borras et al.	—	—	4/6/81
<del>B</del>	A96	4,602,220	7/22/86	Kurihara	—	—	8/14/85
<del>B</del>	A97	4,893,087	1/9/90	Davis	—	—	1/7/88
	A98	4,905,306	2/27/90	Anderson	—	—	2/26/88
	A99	4,926,144	5/15/90	Bell	—	—	9/29/88
	A100	4,998,077	3/5/91	Nanni et al.	—	—	12/20/89
	A101	5,034,703	7/23/91	Schumacher	—	—	7/11/90
	A102	5,036,295	7/30/91	Kamitani	—	—	7/30/90
	A103	5,117,206	5/26/92	Imamura	—	—	12/4/90
	A104	5,175,884	12/29/92	Suarez	—	—	6/1/90
	A105	5,281,927	1/25/94	Parker	—	—	5/20/93
	A106	5,369,376	11/29/94	Leblebicioglu	—	—	11/29/91
	A107	5,644,270	7/1/97	Moyer et al.	—	—	3/15/96
	A108	5,691,669	11/25/97	Tsai et al.	—	—	1/11/96
	A109	5,748,043	5/5/98	Koslov	—	—	5/3/94
	A110	5,808,531	9/15/98	Nakano	—	—	11/8/96
	A111	5,844,868	12/1/98	Takahashi et al.	—	—	3/26/97
	A112	5,867,069	2/2/99	Kiser	—	—	6/9/98
	A113	5,898,345	4/27/99	Namura et al.	—	—	7/14/97
	A114	5,963,100	10/5/99	Tolson et al.	—	—	2/24/98
✓	A115	5,705,955	1/6/98	Freeburg et al.	—	—	12/21/95

Examiner:

T. J. B. — Date Considered: 3/6/06

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	A116	4,926,140	5/15/90	Schenberg			7/19/89
	A117	5,038,117	8/6/91	Miller			9/7/90
	A118	5,258,720	11/2/93	Tanis et al.			3/2/84
	A119	5,258,724	11/2/93	Tanis et al.			12/30/83
	A120	5,661,269	8/26/97	Fukuzaki et al.			3/17/95
	A121	5,561,398	10/1/96	Rasmussen			5/16/95
	A122	5,619,148	4/8/97	Guo			10/10/95
	A123	6,016,332	1/18/00	Smith et al.			12/19/97
	A124	6,208,488	2/22/00	Landman et al.			10/30/97
	A125	6,130,577	10/10/00	Tamba et al.			6/11/96
	A126	3,983,485	9/28/76	Stuart			2/28/75
	A127	4,888,560	12/19/89	Ogura			7/15/88
	A128	4,255,714	3/10/81	Rosen			2/21/79
	A129	5,006,819	4/9/91	Buchan et al.			5/21/90
	A130	5,418,497	5/23/95	Martin			7/5/94
	A131	5,698,469	12/16/97	Mohwinkel et al.			3/6/95
	A132	5,949,291	9/7/99	Newland			1/21/98
	A133	4,057,760	11/8/77	Koch			6/7/76
	A134	5,831,482	11/3/98	Salvi et al.			3/3/97
	A135	5,351,014	9/27/94	Ichiyoshi			8/2/93
	A136	US 2002/000859 3A1	1/24/02	Gomez et al.			12/14/00
	A137	6,539,066	3/25/03	Heinen			11/10/99

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<i>TA</i>	A138	6,343,207	1/29/02	Hessel et al.	—	—	11/3/98
<i>TA</i>	A139	6,002,925	12/14/99	Vu et al.	—	—	3/24/97

### Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date if App.
<i>TA</i>	B1	WO 00/22735	4/20/00	Ali	—	—	—
<i>TA</i>	B2	GB2233518A	1/9/91	Dedic	—	—	—
<i>TA</i>	B3	0643477A2	3/15/95	Hulkko et al.	—	—	—
<i>TA</i>	B4	WO 00/11794	3/2/00	Moore et al.	—	—	—
<i>TA</i>	B5	WO 00/01074	1/6/00	Van Der Zwan et al.	—	—	—
<i>TA</i>	B6	WO 99/22456	5/6/99	Grenabo	—	—	10/27/98
<i>TA</i>	B7	JP359127408 A	7/23/84	Shibata et al.	—	—	1/11/83
<i>TA</i>	B8	JP403258103 A	11/18/91	Kitamura et al.	—	—	3/8/90
<i>TA</i>	B9	JP402298107 A	12/10/90	Obayashi	—	—	5/12/89
<i>TA</i>	B10	JP403070202 A	3/26/91	Araki et al.	—	—	8/9/89
<i>TA</i>	B11	JP04035302 A	2/6/92		—	—	5/28/90

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*Taluk Bel*

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TG	B12	JP357058403 A	4/8/82	Urabe et al.	—	—	9/25/80

**Other Art (Including Author, Title, Date, Pertinent Pages, Etc.)**

Exam. Init.	Ref. Des.	Citation
TG	C1	Stephen Jantzi et al., "Quadrature Bandpass $\Delta\Sigma$ Modulation for Digital Radio," IEEE Journal of Solid-State Circuits, Vol. 32, No. 12, December 1997, pp. 1935-1950.
TG	C2	Stephen Jantzi et al., "A Complex Bandpass $\Delta\Sigma$ Converter For Digital Radio," ISCAS, May/June 1994, pp. 453-456.
TG	C3	"Analog Devices Delivers World's First Open Market GSM Direct Conversion Radio Chipset," Analog Devices Corporate Information Press Release, <a href="http://contentanalog.com/pressrelease/prdisplay/0,1622,102,00.html">http://contentanalog.com/pressrelease/prdisplay/0,1622,102,00.html</a> , September 13, 1999, pp. 1-4.
TG	C4	Data Sheet, CX74017, "RF Transceiver for Single, Dual, or Tri-Band GSM/GPRS Applications," Conexant, January 2, 2001, pp. 1-16.
TG	C5	Jacques C. Rudell et al., "A 1.9-GHz Wide-Band IF Double Conversion CMOS Receiver for Cordless Telephone Applications," IEEE Journal of Solid-State Circuits, Vol. 32, No. 12, December 1997, pp. 2071-2088.
TG	C6	Jan Crols et al., "Low-IF Topologies for High-Performance Analog Front Ends of Fully Integrated Receivers," IEEE Transactions on Circuits and Systems-II: Analog and Digital Signal Processing, Vol. 45, No. 3, March 1998, pp. 269-282.
TG	C7	Jacques C. Rudell et al., "Recent Developments In High Integration Multi-Standard CMOS Transceiver for Personal Communication Systems," invited paper at the 1998 International Symposium on Low Power Electronics, Monterey, California, 6 pgs.
TG	C8	Asad Abidi, "CMOS Wireless Transceivers: The New Wave," IEEE Communications Magazine, August 1999, pp. 119-124.
TG	C9	Data Sheet, UAA3535HL, "Low Power GSM/DCS/PCS Multi-band Transceiver," Philips Semiconductors, February 17, 2000, pp. 1-24.

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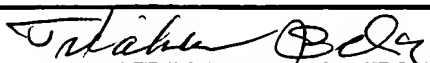


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Exam. Init.	Ref. Des.	Citation
TG	C10	Stephen Jantzi et al., "FP 13.5: A Quadrature Bandpass $\Delta\Sigma$ Modulator for Digital Radio," Digest of Technical Papers, 1997 IEEE International Solid-State Circuits Conference, First Edition, February 1997, pp. 216-217, 460.
TG	C11	S. A. Jantzi et al., "The Effects of Mismatch In Complex Bandpass $\Delta\Sigma$ Modulators," IEEE, 1996, pp. 227-230.
TG	C12	Qiuting Huang, "CMOS RF Design-The Low Power Dimension," IEEE 2000 Custom Integrated Circuits Conference, pp. 161-166.
TG	C13	Paolo Orsatti et al., "A 20-mA-Receive, 55-mA-Transmit, Single-Chip GSM Transceiver in 0.25- $\mu$ m CMOS," IEEE Journal of Solid-State Circuits, Vol. 34, No. 12, December 1999, pp. 1869-1880.
TG	C14	Qiuting Huang et al., "The Impact of Scaling Down to Deep Submicron on CMOS RF Circuits," IEEE Journal of Solid-State Circuits, Vol. 33, No. 7, July 1998, pp. 1023-1036.
TG	C15	Behzad Razavi, "Design Considerations for Direct-Conversion Receivers," IEEE Transactions on Circuits and Systems-II: Analog and Digital Signal Processing, Vol. 44, No. 6, June 1997, pp. 428-435.
TG	C16	Farbod Behbahani et al., "CMOS Mixers and Polyphase Filters for Large Image Rejection," IEEE Journal of Solid-State Circuits, Vol. 36, No. 6, June 2001, pp. 873-887.
TG	C17	Jan Crols et al., "A Single-Chip 900 MHz CMOS Receiver Front-End With A High Performance Low-IF Topolgy," IEEE Journal of Solid-State Circuits, Vol. 30, No. 12, December 1995, pp. 1483-1492.
TG	C18	Analog Devices, Single-Chip Direct-Conversion GSM/GPRS/EDGE RFIC, Othello One, <a href="http://www.analog.com">www.analog.com</a> , 2 pgs.
TG	C19	Analog Devices, AD6523/AD6524, GSM Direct Conversion Radio Chip Set, <a href="http://www.analog.com">www.analog.com</a> , 2 pgs.
TG	C20	Analog Devices, GSM 3 V Transceiver IF Subsystem, AD6432, <a href="http://www.analog.com">www.analog.com</a> , pp. 1-20.
TG	C21	Hitachi, "RF Transceiver IC For GSM And PCN Dual Band Cellular Systems," HD155121F, ADE-207-265(Z), 1 <sup>st</sup> Edition, November 1998, pp. 1-56.
TG	C22	Analog Devices, AD7002 Specification, LC2MOS, GSM Baseband I/O Port, Rev. B, 1997, pp. 1-16.

Examiner:



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### Other Art (Including Author, Title, Date, Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
<i>E</i>	C23	Analog Devices, AD20msp415, GSM/DCS1800/PCS1900, Baseband Processing Chipset, Rev. O, 1997, pp. 1-7.
<i>E</i>	C24	Kwentus et al., "A Single-Chip Universal Digital Satellite Receiver With 480-MHz IF Input," IEEE Journal of Solid-State Circuits, Vol. 34, No. 11, November 1999, pp. 1634-1646.
<i>E</i>	C25	Minnis et al., "A Low-IF Polyphase Receiver For GSM Using Log-Domain Signal Processing," IEEE Radio Frequency Integrated Circuits Symposium, 2000, pp. 83-86.
<i>E</i>	C26	Atkinson et al., "A Novel Approach To Direct Conversion RF Receivers For TDMA Applications," Analog Devices, 1999, pp. 1-5.
<i>E</i>	C27	Crochiere et al., "Optimum FIR Digital Filter Implementations For Decimation, Interpolation, And Narrow-Band Filtering," IEEE Transactions On Acoustics, Speech, And Signal Processing, Vol. ASSP-23, No. 5, October 1975, pp. 444-456.
<i>E</i>	C28	Hogenauer, "An Economical Class Of Digital Filters For Decimation And Interpolation," IEEE, 1981, pp. 155-162.
<i>E</i>	C29	Brandt et al., "A Low-Power, Area-Efficient Digital Filter For Decimation And Interpolation," IEEE Journal Of Solid-State Circuits, Vol. 29, No. 6, June 1994, pp. 679-687.
<i> </i>	C30	Philips Semiconductors, "uaa3535-Low-Power GSM GPRS Triple-Band Near-Zero IF Transceiver," October 1999, 4 pgs.
<i> </i>	C31	D'Avella et al., "An Adaptive MLSE Receiver For TDMA Digital Mobile Radio," IEEE Journal On Selected Areas In Communications, Vol. 7, No.1, January 1989, pp. 122-129.
<i> </i>	C32	Razavi, "CMOS RF Receiver Design For Wireless LAN Applications," IEEE, 1999, pp. 275-280.
<i> </i>	C33	Lucent Technologies, "W3020 GSM Multiband RF Transceiver," Advance Data Sheet, December 1999, pp. 1-44.
<i> </i>	C34	Lucent Technologies, "DSP1620 Digital Signal Processor," Data Sheet, June 1998, pp. 1-178.
<i> </i>	C35	Steyaert et al., "A 2-V CMOS Cellular Transceiver Front-End," IEEE Journal of Solid-State Circuits, Vol. 35, No. 12, December 2000, pp. 1895-1907.
<i> </i>	C36	Paulus et al., "A CMOS IF Transceiver With Reduced Analog Complexity," IEEE Journal Of Solid-State Circuits, Vol. 33, No. 12, December 1998, pp. 2154-2159.

Examiner:

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Exam. Init.	Ref. Des.	Citation
	C37	Analog Devices, "Analog Devices Delivers World's First Open Market GSM Direct Conversion Radio Chipset," November 1999, 4 pgs.
	C38	"Digest Of Technical Papers," 1997 IEEE International Solid-State Circuits Conference, First Edition, February 1997, 5 pgs.
	C39	RF Micro Devices, RF2968, Product Description, Blue Tooth Transceiver, Rev A19, pp. 11-199-11-222.
	C40	Texas Instruments, TRF6901, "Single Chip RF Transceiver," March 2002, pp. 1-29.
	C41	Texas Instruments, TRF6900A, "Single Chip RF Transceiver," September 2001, pp. 1-34.
	C42	Texas Instruments, TRF6900, "Single Chip RF Transceiver, October 1999, pp. 1-32.
	C43	Philips Semiconductor, "Bluetooth RF Transceiver," Data Sheet, UAA3558, December 21, 2000, pp. 1-5.
	C44	Philips Semiconductor, "Image Reject 1 800 MHz Transceiver For DECT Applications," Data Sheet, UAA2067G, October 22, 1996, pp. 1-24.
	C45	Philips Semiconductor, "Analog Cordless Telephone IC," Data Sheet, UAA2062, August 10, 2000, pp. 1-40.
	C46	Philips Semiconductor, "900 MHz Analog Cordless Telephone IC," Data Sheet, UAA3515A, December 12, 2001, pp. 1-44.
	C47	Philips Semiconductor, "Low Voltage IF I/Q Transceiver," Data Sheet, SA1638, September 3, 1997, pp. 1-26.
	C48	Texas Instruments, "TCS2100 GPRS Chipset Solution," Product Bulletin, 2001, 4 pgs.
	C49	Fague, "Othello: A New Direct-Conversion Radio Chip Set Eliminates IF Stages," Analog Dialogue 33-10, 1999, pp. 1-3.
	C50	Analog Devices, AD6523/AD6524, "GSM Direct Conversion Radio Chip Set," 1999, 2 pgs.
	C51	Lucent Technologies, "Lucent CSP1089 GSM Conversion Signal Processor For Cellular Handset And Modem Applications," Product Brief, February 2001, 2 pgs.
	C52	Lucent Technologies, "Lucent CSP1099 GSM Conversion Signal Processor For Cellular Handset And Modem Applications," Product Brief, February 2001, 2 pgs.

Examiner:

Date Considered:

3/16/02

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### Other Art (Including Author, Title, Date, Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
	C53	Lucent Technologies, "Trident," Product Brief, February 2001, 2 pgs.
	C54	Ericsson, "RF Transceiver Circuit For The Digital Enhanced Cordless Telecommunications (DECT) System," PBL40215, January 2001, pp. 1-22.
	C55	Micro Linear, "ML2712 2.4GHz Transceiver," Datasheet, August 2001, pp. 1-21.
	C56	Analog Devices, "GSM/GPRS/DCS1800.PCS1900 SoftFone Baseband Chipset," AD20msp430, 2000, 2 pgs.
	C57	RF Micro Devices, "Polaris Total Radio Solution," Press Release, 2002, 1 pg.
	C58	Tuttle, "Introduction To Wireless Receiver Design," Tutorial, 2002, pp. 2-58.
	C59	Rael et al., "Design Methodology Used In A Single-Chip CMOS 900 MHz Spread-Spectrum Wireless Transceiver," 35 <sup>th</sup> Design Automation Conference, June 1998, 6 pgs.
	C60	Troster et al., "An Interpolative Bandpass Converter On A 1.2-μm BiCMOS Analog/Digital Array," IEEE Journal Of Solid-State Circuits, Vol. 28, No. 4, April 1993, pp. 471-477.
	C61	Schreier et al., "Decimation For Bandpass Sigma-Delta Analog-To-Digital Conversion," IEEE, 1990, pp. 1801-1804.
	C62	Shoaei et al., "Optimal (Bandpass) Continuous-Time ΔΣ Modulator," pp. 489-492.
	C63	Schreier et al., "Bandpass Sigma-Delta Modulation," Electronics Letters, Vol. 25, no. 23, November 9, 1989, pp. 1560-1561.
	C64	Jantzi et al., "Bandpass Sigma-Delta Analog-To-Digital Conversion," IEEE Transactions On Circuits And Systems, Vol. 38, No. 11, November 1991, pp. 1406-1409.
	C65	Crols et al., "An Analog Integrated Polyphase Filter For A High Performance Low-IF Receiver," Symposium On VLSI Circuits Digest Of Technical Papers, 1995, pp. 87-88.
	C66	Aziz et al., "Performance Of Complex Noise Transfer Functions In Bandpass And Multi Band Sigma Delta Systems," IEEE, 1995, pp. 641-644.
	C67	Jantzi, "A Fourth-Order Bandpass Sigma-Delta Modulator," IEEE Journal Of Solid-State Circuits, Vol. 28, No. 3, March 1993, pp. 282-291.
	C68	Liu et al., "Switched-Capacitor Implementation Of Complex Filters," IEEE International Symposium On Circuits And Systems, Vol. 3, 1986, 5 pgs.

Examiner:

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Exam. Init.	Ref. Des.	Citation
	C69	Sedra et al., "Complex Analog Bandpass Filters Designed By Linearly Shifting Real Low-Pass Prototypes," IEEE International Symposium On Circuits And Systems, Vol. 3, 1985, 5 pgs.
	C70	Thurston et al., "Bandpass Implementation Of The Sigma-Delta A-D Conversion Technique," International Conference On Analogue To Digital And Digital To Analogue Conversion, September 1991, 7 pgs.
	C71	Rudell, et al., "Second Generation Multi-Standard Monolithic CMOS RF Transceiver," University of California, Berkeley, Slides 1 through 9 (June 1996)
	C72	Cho, et al., "Multi-Standard Monolithic CMOS RF Transceiver," University of California, Berkeley, Slides 1 through 26 (June 1996)
	C73	Copending U.S. Patent Application Serial No. 09/821,342, filed March 29, 2001, "Partitioned Radio-Frequency Apparatus And Associated Method" (SILA:072)
	C74	Copending U.S. Patent Application Serial No. 09/821,340, filed March 29, 2001, "Digital Interface In Radio-Frequency Apparatus And Associated Methods" (SILA:073)
	C75	Copending U.S. Patent Application Serial No. 10/075,094, filed February 13, 2002, "Radio-Frequency Communication Apparatus And Associated Methods" (SILA:074)
	C76	Copending U.S. Patent Application Serial No. 10/075,098, filed February 13, 2002, "Apparatus And Methods For Generating Radio Frequencies In Communication Circuitry" (SILA:075)
	C77	Copending U.S. Patent Application Serial No. 10/075,122, filed February 12, 2002, "Digital Architecture For Radio-Frequency Apparatus And Associated Methods" (SILA:078)
	C78	Copending U.S. Patent Application Serial No. 10/083,633, filed February 26, 2002, "Apparatus And Methods For Calibrating Signal-Processing Circuitry" (SILA:080)
	C79	Copending U.S. Patent Application Serial No. 10/081,121, filed February 22, 2002, "Calibrated Low-Noise Current And Voltage References And Associated Methods" (SILA:095)
	C80	Copending U.S. Patent Application Serial No. 10/074,591, filed February 13, 2002, "Apparatus For Generating Multiple Radio Frequencies In Communication Circuitry And Associated Methods" (SILA:096)
	C81	Copending U.S. Patent Application Serial No. 10/075,099, filed February 12, 2002, "Notch Filter For DC Offset Reduction In Radio-Frequency Apparatus And Associated Methods" (SILA:097)

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<i>E</i>	C82	Copending U.S. Patent Application Serial No. 10/074,676, filed February 12, 2002, "DC Offset Reduction In Radio-Frequency Apparatus And Associated Methods" (Sila:098)
<i>KG</i>	C83	Copending U.S. Patent Application Serial No. 10/079,058, filed February 19, 2002, "Apparatus And Methods For Output Buffer Circuitry With Constant Output Power In Radio-Frequency Circuitry" (Sila:099)
<i>E</i>	C84	Copending U.S. Patent Application Serial No. 10/081,730, filed February 22, 2002, "Method And Apparatus For Synthesizing High-Frequency Signals For Wireless Communications" (Sila:106)
<i>KG</i>	C85	Copending U.S. Patent Application Serial No. 10/079,057, filed February 19, 2002, "Apparatus And Method For Front-End Circuitry In Radio-Frequency Apparatus" (Sila:107)
<i>E</i>	C86	Allen, "Complex Analog Filters Obtained From Shifted Lowpass Prototypes," September 1985, 118 pgs.
<i>KG</i>	C87	Motorola Communications Semiconductor Product Division, "A 1.9 GHz Chipset For PCS Applications," Microwave Journal, No. 6, June 1995, 3 pgs.
<i>KG</i>	C88	Search Report for PCT/US02/00896; October 4, 2002; 7 pgs.
<i>E</i>	C89	Copending U.S. Patent Application Serial No. 09/708,339, filed November 8, 2000, "Method And Apparatus For Operating A PLL With A Phase Detector/Sample Hold Circuit For Synthesizing High-Frequency Signals For Wireless Communications" (Sila:035C1)
<i>KG</i>	C90	Copending U.S. Patent Application Serial No. 09/999,702, filed October 31, 2001, "Method And Apparatus For Synthesizing Dual Band High-Frequency Signals For Wireless Communications" (Sila:060C1)
<i>KG</i>	C91	Cong et al., "Multigigahertz CMOS Dual-Modulus Prescaler IC", IEEE Journal Of Solid-State Circuits, Vol. 23, No. 5, October 1988, pps. 1189-1194.
<i>KG</i>	C92	Duncan et al., "A 1 GHz Quadrature Sinusoidal Oscillator", IEEE Custom Integrated Circuits Conference, 1995, pps. 91-94.
<i>E</i>	C93	Craninckx et al., "A 1.8-GHz CMOS Low-Phase-Noise Voltage-Controlled Oscillator With Prescaler", IEEE Journal of Solid-State Circuits, Vol. 30, No. 12, December 1995, pps. 1474-1482.

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Exam. Init.	Ref. Des.	Citation
	C94	Chang et al., "A 1.2 GHz CMOS Dual-Modulus Prescaler Using New Dynamic D-Type Flip-Flops", IEEE Journal of Solid-State Circuits, Vol. 31, No. 5, May 1996, pps. 749-752.
	C95	Craninckx et al. "A 1.75-GHz/3-V Dual-Modulus Divide-by-128/129 Prescaler In 0.7-μm CMOS", IEEE Journal of Solid-State Circuits, Vol. 31, no. 7, July 1996, pps. 890-897.
	C96	National Semiconductor, "LMX2330L/LMX2331L/LMX2332L PLLatinum™ Low Power Dual Frequency Synthesizer For RF Personal Communications", Advance Information, February 1998, 16 pgs.
	C97	Kral et al., "RF-CMOS Oscillators With Switched Tuning", Custom IC Conference, Santa Clara, CA, May 1998, pps. 555-558.
	C98	Craninckx et al., "FA 15.5: A CMOS 1.8GHz Low-Phase-Noise Voltage-Controlled Oscillator With Prescaler", IEEE International Solid-State Circuits Conference, 1995, 3 pgs.
	C99	Silicon Laboratories, "Dual-Band RF Frequency Synthesizer With Integrated VCOs For Wireless Communications", SI 4133, 1999, pps. 1-28.
	C100	Craninckx, "Low-Phase-Noise Fully Integrated CMOS Frequency Synthesizers", December 1997, pps. 77-104.
	C101	Search Report for PCT/US02/00895; November 7, 2002; 6 pgs.
	C102	Copending U.S. Patent Application Serial No. 10/631,483, filed July 31, 2003, "Frequency Modification Circuitry For Use In Radio-Frequency Communication Apparatus And Associated Methods" (Sila:123)

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